

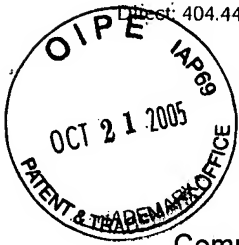
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October 18, 2005

Commissioner for Patents  
P.O. Box 1450  
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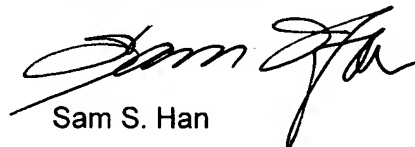
Re: U.S. Patent Application No.: 10/616,750  
Filed: July 10, 2003  
For: **METHOD AND APPARATUS FOR ASSISTING REMOVAL OF SAND  
MOLDINGS FROM CASTINGS**  
Inventor: Lewis, et al.  
Our Reference Number: 2041219-0005

Sir or Madam:

The following documents are forwarded herewith for appropriate action by the U.S.  
Patent and Trademark Office:

1. Transmittal letter;
2. Transmittal Form;
3. Information Disclosure Statement;
4. PTO Form SB/08;
5. Foreign and non-patent documents cited in IDS (22 total documents); and
6. An acknowledgment postcard.

Very truly yours,

  
Sam S. Han

SSH/clr  
enclosures

\\COM\547558.1



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

*In re* Patent Application of:

Docket No.: 2041219-0005

Lewis, et al.

Group Art Unit: 1725

Application No.: 10/616,750

Examiner: Ing-Hour Lin

Filed: July 10, 2003

For: METHOD AND APPARATUS FOR ASSISTING REMOVAL OF SAND  
MOLDINGS FROM CASTINGS

Commissioner for Patents  
P.O. BOX 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Under the provisions of 37 CFR §1.97 through §1.99 and pursuant to the Applicant's duty of disclosure under 37 CFR §1.56, the Applicant respectfully brings the following document(s), listed on the attached form PTO-1449, to the attention of the Examiner in charge of the above-identified application.

This citation does not constitute an admission that the documents are relevant or material to the claims. The documents are only cited as constituting related art of which the Applicant is aware.

The Applicant respectfully requests that the Examiner consider the listed documents and formally make the document of record in this application. Should the Examiner have any questions after consideration of this Information Disclosure Statement, the Examiner is invited to contact the Applicant's undersigned representative at the number below to expedite prosecution.

Please charge any deficiencies in fees and credit any overpayment of fees to our  
Deposit Account No. 23-1951.

Respectfully Submitted,



Sam S. Han  
Reg. No. 51,771

Date: October 18, 2005

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Suite 2100  
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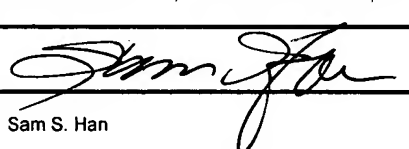
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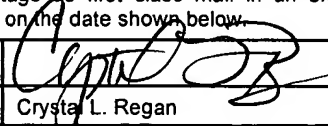
\\COM\544136.1



<b>TRANSMITTAL FORM</b>  <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/616,750	
	Filing Date	July 10, 2003	
	First Named Inventor	Lewis, et al.	
	Art Unit	1725	
	Examiner Name	Ing-Hour Lin	
Total Number of Pages in This Submission		Attorney Docket Number	2041219-0005

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) ____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Acknowledgment Postcard; Copies of Foreign and Non-Patent Documents Cited in IDS
<b>Remarks</b>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm	McGuireWoods LLP, 1170 Peachtree Street, N.E., Suite 2100, Atlanta, Georgia 30309		
Signature			
Printed Name	Sam S. Han		
Date	October 18, 2005	Reg. No.	51,771

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Signature			
Typed or printed name	Crysta L. Regan	Date	October 18, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 4

**Complete if Known**

Application Number	10/616,750
Filing Date	July 10, 2003
First Named Inventor	Lewis, et al.
Art Unit	1725
Examiner Name	Ing-Hour Lin
Attorney Docket Number	2041219-0005

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	AS	US- 3,124,452	03/1964	Kraft	
	AT	US- 3,540,519	11/1970	Yates	
	AU	US- 620,291	11/1971	Delachapelle	
	AV	US- 3,863,702	02/1975	Hallerberg et al.	
	AW	US- 3,958,619	05/1976	Petersen et al.	
	AX	US- 4,222,429	09/1980	Kemp	
	AY	US- 4,347,890	09/1982	Aillin-Pyzik et al.	
	AZ	US- 4,399,858	08/1983	Kurabe et al.	
	BA	US- 4,548,256	10/1985	Glinn et al.	
	BB	US- 4,607,091	08/1986	Schreiber	
	BC	US- 4,629,708	12/1986	Alexander et al.	
	BD	US- 5,143,665	09/1992	Clubbs et al.	
	BE	US- 5,158,130	10/1992	Sahari	
	BF	US- 5,294,648	03/1994	Smith et al.	
	BG	US- 5,333,673	08/1994	Hughes	
	BH	US- 5,573,055	11/1996	Melling et al.	
	BI	US- 5,725,044	03/1998	Hirokawa	
	BJ	US- 5,810,918	09/1998	Landis	
	BK	US- 5,913,354	06/1999	Conroy et al.	
	BL	US- 5,957,188	09/1999	Crafton	
	BM	US- 6,139,619	10/2000	Zaretskiy	
	BN	US- 6,336,809	01/2002	Crafton	
	BO	US- 6,390,178	05/2002	Makino	
	BP	US- 6,447,593	09/2002	Sargent et al.	
	BQ	US- 6,469,299	10/2002	Chutjian et al.	
	BR	US- 6,547,556	04/2003	Crafton et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	AH	EP 0 119 365 B1	09/1987			
	AI	DE 36 16 168 A1	11/1987			
	AJ	(Japan) 5-169185	07/1993			
	AK	FR 2 614 814 A3	11/1988			
	AL	DE 32 15 809 C1	11/1983			
	AM	GB 2 248 569 A	04/1992			
	AN	WO 93 19870	10/1993			

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

Sheet	3	of	4
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**Complete if Known**

<i>Application Number</i>	10/616,750
<i>Filing Date</i>	July 10, 2003
<i>First Named Inventor</i>	Lewis, et al.
<i>Art Unit</i>	1725
<i>Examiner Name</i>	Ing-Hour Lin
<i>Attorney Docket Number</i>	2041219-0005

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	AO	EP 0 796 681 A2	09/1997			
	AP	GB 2 070 627 A	09/1981			
	AQ	DE 195 25 307 A1	01/1997			

**Examiner  
Signature**

Date  
Considered

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 4 of 4

**Complete if Known**

Application Number	10/616,750
Filing Date	July 10, 2003
First Named Inventor	Lewis, et al.
Art Unit	1725
Examiner Name	Ing-Hour Lin
Attorney Docket Number	2041219-0005

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AA	Patent Abstracts of Japan, JP-60247458 (Mazda Motor Corp.) December 7, 1985	
	AB	NIEDLING, JAKE J. et al., "Evaluating RSI Sows For Safe Charging Into Molten Metal," Light Metals 2003, TMS (The Minerals, Metals & Materials Society), 2003, pp. 695-700	
	AC	EKENES, J. MARTIN et al., "Cause and Prevention of Explosions Involving Hot-Top Casting of Aluminum Extrusion Ingot," Light Metals 2003, TMS (The Minerals, Metals & Materials Society), 2003, pp. 687-693	
	AD	Patent Abstracts of Japan, vol. 010, no. 118, 2 May 1986 & JP 60 247458 (Mazda KK) 7 December 1985	
	AE	Patent Abstracts of Japan; Publication No. 61007058; Publication Date 13-01-86	
	AF	Patent Abstracts of Japan, Vol. 11, No. 094 25 March 1987 & JP 61 245938, Asahi Organic Chem. Ind. Co. Ltd., 1 November 1986	
	AG	VELTRUP E.M., "Kurze Entkernungszeiten Beim Entkernen Mit Hochdruckwasserstrahl," Giesserei, Giesserei Verlag, Dusseldorf, Germany, Vol. 74, No. 4, 18 February 1987, pages 102-104	

Examiner  
SignatureDate  
Considered

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 4

**Complete if Known**

Application Number	10/616,750
Filing Date	July 10, 2003
First Named Inventor	Lewis, et al.
Art Unit	1725
Examiner Name	Ing-Hour Lin
Attorney Docket Number	2041219-0005

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	AA	US-6,622,775	09/23/2003	Crafton et al.	
	AB	US- 6,672,367	01/06/2004	Crafton et al.	
	AC	US- 2004/0055728	03/25/2004	Lewis, Jr. et al.	
	AD	US- 2005/0022957	02/03/2005	Crafton et al.	
	AE	US- 2005/0072549	04/07/2005	Crafton et al.	
	AF	US- 2005/0145362	07/07/2005	Crafton et al.	
	AG	US- 4,582,118	04/15/1986	Jacoby et al.	
	AH	US- 4,610,295	09/09/1986	Jacoby et al.	
	AI	US- 4,709,740	12/01/1987	Jacoby et al.	
	AJ	US- 4,724,887	02/16/1988	Jacoby et al.	
	AK	US- 4,987,950	01/29/1991	Yu	
	AL	US- 5,148,853	09/22/1992	Yu et al.	
	AM	US- 5,681,407	10/28/1997	Yu et al.	
	AN	US- 5,820,705	10/13/1998	Yu et al.	
	AM	US- 5,915,452	06/29/1999	Conroy et al.	
	AN	US- 22,865	02/1859	Gardiner	
	AO	US- 185,376	12/1876	Whitehouse	
	AP	US- 381,655	04/1888	Stover	
	AQ	US- 927,495	07/1909	Custer	
	AR	US- 1,241,867	10/1917	McMillen	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	AA	CH 622 726 A5	04/30/1981	Kohlswa Jernverks Aktiebolaget, Kolsva (SE)		
	AB	GB 1 549 220	07/25/1979	Back et al. (English Text)		
	AC	EP 0 744 233 A3	11/27/1996	Howmet Corporation (English Text)		
	AD	EP 0 141 666	05/15/1985	Ford Motor Company Limited (English Text)		
	AE	EP 0 141 666 A2	05/15/1985	Ford France Societe Anonyme		
	AF	CH 622 726 A5	04/30/1981	Kohlswa Jernverks AB		
	AG	EP 0 744 233 A2	11/27/1996	Howmet Corporation		

Examiner  
SignatureDate  
Considered

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